

Personal Data

Abdel Mohsin Hassan El Nadi

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Family Name: El Nadi

Place of Birth: Dueim, Sudan

Date of Birth: January 01, 1937

Academic Qualifications

· B. Se. (Agric.) University of Khartoum (Sudan), 1961.

· M. Se. (Agric.) University of Khartoum (Sudan), 1963.

2004 to date:	Prof. of Agronomy (Agric. resource use and crop water requirements), Faculty of Agriculture University of Khartoum.
1994-2003	On Secondment from University of Khartoum to Directorate General of Agricultural Research, Rumais Agric. Research Station, Ministry of Agriculture and Fisheries, Sultanate of Oman, expert in crop water requirements.
1991-1994	Professor of Agronomy Faculty of Agric. Univ. Khartoum.
1989-1991	On Secondment from Univ. of Khartoum to Ministry of Higher Education Sudan, in the post of Secretary General of Higher Education.
1988-1988	On Secondment from Univ. of Khartoum to FAO, consultant in Dry land Farming, Nazareth Research Station, Ethiopia.
1983-1988	Prof. of Agronomy and Head Dept. Fac. of Agric. University of Khartoum.

1980 – 1983	Dean, Fac. of Agric. Univ. of Khartoum (Full term of office).
1975-1980	Prof. of Agronomy and Head of Dept. Fac. of Agric. University of Khartoum.
1969-1994	Associate Prof. Dept. of Agronomy, University of Khartoum.
1966-1969	Assistant Prof. Dept. of Agronomy, University of Khartoum.

· Ph. D. University of Nottingham, U. K., 1966.

Previous and Present Jobs

Recognition of Research in International Biographies:

The undertaken research was recognized by specialized agencies, which publish autobiographies of reputable scientists and professionals. My biography was cited in the following documents:

1. "Who is who in the world U.S.A" vol. 5 p. 273, 1980.
2. "Men of Achievement" Ninth ED. 1982 U.K.
3. "International Biographies" Cambridge, U.K. 1983

Administrative Experience

Head of Dept., Dean of Faculty, Secretary General for Higher Education, and experience in research planning and leadership.

Cultural Agreements, Staff training and Exchange Programmers:

- Made cultural agreements with other universities e.g. with Arizona and California and with U.K. universities e.g. Nottingham, London, Reading, and Belfast and with German universities namely, Hamburg, Dresden, with Netherlands (Wagnengen) and with African universities e.g. Nairobi (Kenya), Makrare (Uganda) and Alexandria, Egypt.
- Supervised 15 M. Se. students.
- Examined 30 M.Sc. and Ph.D. students, inside and outside Sudan.

Visits and Contacts with Research Institutions:

I. Strengthened existing links with local and international research institutions e.g. The International Centre for Agric. Research in Dry Area (ICARDA) and international organizations e.g. FAO as consultant in Dry land Farming Ethiopia (1988) and participated in preparing the Agrovoc (Arabic and English Document for Scientific Terms used in Agriculture).

Technical reports and Consultations Inside and Outside Sudan:

1. Feasibility study of proposal, submitted to Sudan Gezira Board Evaluating Irrigation Policy by A H. El Nadi 1968. Gezira Board Publications.
2. AH. El Nadi and others, (1970). Studies on the problems of Agric. Production Western Sudan. Publications of the Ministry of Agriculture Sudan, (in arabic).
3. AH. El Nadi and Others (1972). A study of crop water requirements in Northern Sudan, using radioisotope techniques. L.AE.A Technical; Reports Series No. 134. 93-95.
4. AH. El Nadi and Others (1975). Plus crops of the Sudan. The First Agriculture Congress. Publications of the Ministry of Agriculture, Sudan. (in Arabic).
5. AH. El Nadi, (Team Leader) and Others (1977). The Technical an Economic Feasibility of KONDI III project in the Islamic Republic of Mauritania. Arab Organization for Agricultural Development Khartoum.
6. AH. El Nadi, (Team Leader) and Others (1977). An appraisal for the Report entitled "Sag El Naam" pre-investment studies-Report Submitted by Hunting Technical to the Ministry of Agriculture, (Ministry of Agriculture, Food and National Research).
7. AH. El Nadi, (Team Leader) and Others (1978). Technical and Economic study of Esailat Agricultural Scheme of Khartoum Province. Publications of Khartoum Province. (1978)
8. El Nadi, (1979). Technical Report on Agriculture Education in Iraq, AH UNESCO, Paris, Consultant's Report.
9. AH. El Nadi, (1980). Some Agronomic Aspects of Broad been Production. Tec. Rep. ICARDA/IFAD Programme 1981.
10. AH. El Nadi, and Others (1980). A study on the Deterioration of cotton yields in the Irrigated Schemes of the Sudan. Reports of Ministry of Agriculture-Sudan (in Arabic).
11. AH. El Nadi, and Others (1981). (a) Utilization of the Natural Resources for Agricultural Production of Khartoum Province (in Arabic). Arab Organization for Agricultural Development Khartoum (1981).
12. AH. El Nadi, (1981). (b) Water relations' studies in Beans Tech. Rep. ICARDA IFAD Nile Valley Project.

13. AH. El Nadi, (Team Leader) and Others (1982). (a) Present and Potential Utilization of the Agricultural Resources in the Northern and Eastern Regions of the Sudan. Arab Organization for Agricultural Development – Khartoum (in Arabic).
14. A.H. El Nadi, and Others (1982). (b) Rehabilitation Requirements for Agricultural Schemes in the Northern Region of the Sudan. IFAD Rome.
15. AH. El Nadi, and Other, (1985). Feasibility study of El Hisha Project in Libya (Arab Organization for Agricultural development Khartoum).
16. AH. El Nadi, (1988). Dry land farming in Ethiopia Nazareth Research Station Project Eth/014 FAO Rome, C.P.O. 1988 Experiment's Technical Report.
17. AH. El Nadi, (1990). Agricultural Research Extension and Training Project (ARETP), National Consultants, Project Midterm Review, Final Report. (World Bank and Government of Sudan Project).
18. AH. El Nadi, Assad Tagi and Mohsin El Amri 1995 (a) Different Methods for Estimating Water Requirements of Crops. (Ministry of Agric. & Fisheries Tech. Reports. Sultanate of Oman.
19. AH. El Nadi, & Mohsin El Amri 1995. (b) Different climatic conditions & their effects on crop water requirements.
20. AH. El Nadi, 1996, Field crops water requirements. The Irrigation Cycle. Ministry of Agric. & Fisheries, Sultanate of Oman Tech Rep.
21. AH. El Nadi, 1996. Raising the Efficiency of Irrigation under Different Modern Irrigation Techniques. Ministry of Agric. & Fisheries, Sultanate of Oman.
22. AH. El Nadi, (1997). The Use of Modeling in Irrigation Scheduling. Ministry of Agric. & Fisheries, Sultanate of Oman.
23. AH. El Nadi, & Saoud El Habsi (1999). The water Requirements of Vegetables in the Sultanate of Oman in the National Conference of Arab Organization of Agric. Development, Syria, (1999).
24. A H. El Nadi, (2000). Research Strategy for Research in Soil and water in the Sultanate of Oman. Tech. Rep. Ministry of Agric. & Fisheries, Sultanate of Oman.
25. A H. El Nadi, (2001). The effect of climate, soil and type crop on water requirements. Tech. Reports, Ministry of Agric. & Fisheries, Sultanate of Oman.
26. A H. El Nadi (2002) (a) The future of solar Energy in Rural development in Sultanate of Oman. Conference paper. University of Sultan Qabos, Sultanate of Oman.
27. A H. El Nadi (2002) (b) the Differential Irrigation and Irrigation with Deficit. Tech. Reports Ministry of Agric. & Fisheries, Sultanate of Oman.

28. A H. El Nadi (2003) (a) Irrigation Scheduling for date palms in Oman. Tech. Reports Ministry of Agric. & Fisheries, Sultanate of Oman.
29. A H. El Nadi (2003) (b) Irritations Guide, Estimation of Crop Water Requirements in Oman.
30. A H El Nadi (2004) The Relationship Between Evaporation, Rainfall , River Waters and Crop Water Requirements in the Sudan: A Signal of Water Shortage. Proceeding of the 38th National Crop Husbandry Committee ,Agric Research Corp Wad Madani , Sudan.
31. A H El Nadi (2005a) Water Requirements for the Economic Production of Lucerne in Khartoum State Proceeding of the 39th National crop Husbandry Committee ,Agric Research Corp Wad Madani , Sudan.
32. A H (2005b) The Water Requirements of Economic Production of fodder Sorghum and fodder maize in Khartoum State the 40th National crop Husbandry Committee ,Agric Research Corp Wad Madani , Sudan.
33. A H El Nadi (2006a) (Team Member with Golda Associates , South Africa) Improvement and Modernization of Agriculture in the Gezira Scheme of the Sudan Sudan Gazira Technical Reports (2006) .
34. A H El Nadi And Abdel Magid , I . (2006b) Utilization of the Water Resouces in the Sudan . Proceedings of the Committee for Future Studies in the Sudan (2006).
35. A H El Nadi (2006c) (Team Member with Golda Associates, South Africa), Feasibility Study of Agricultural Production in Sondos Project. Technical Reports of Sondos Project Khartoum.

Conferences

- 1-El Nadi,A.Hand El Rayah,A.H(1972)water requirements investigations in the Sudan,proceeding of FAO Water use Seminar, Damascus,pp.136.
- 2-El Rayah ,A.H and ElNadi,A.H(1972)Irrigation studies in the Gezira (Sudan).proceeding of FAO water use Seminar,Damascus.pp. 244245.
- 3-El.Nadi,A.H(1972). Special problems of irrigation in Agriculture, proceedings of the post graduate course in the teaching of Tropical Agronomy.UNESCO in association with Faculty Agriculture, University of Khartoum.

4-ELkarouri, M.O.H, Khidir,M.O and EL Nadi,A.H(1972).Devising the Agronomy syllabus proceedings of the post –graduate course in the teaching of Tropical Agronomy.University of Khartoum .

5-56.EL.Nadi,A.H(1974).Water requirements of wheat and maize. Symposium on cereal crops. Agricultural Research Corporation,WadMedani 18-19 March 1974.

6-EL Nadi,A.H(1982). Water regimes and crop water requirements.Symposium.Khartoum State, Technical Reports.

V. Cultural Agreements, Staff training and Exchange Programmers:

Made cultural agreements with other universities e.g. with Arizona and California and with U.K. universities e.g Nottingham, London, Reading, and Belfast and with German universities namely, Hamburg, Dresden, with Netherlands (Wagnengen) and with African universities e.g. Nairobi (Kenya), Makrare (Uganda) and Alexandria, Egypt.

Visits and Contacts with Research Institutions:

Strengthened existing links with local and international research institutions e.g. The international Centre for Agric. Research in Dry Areas (ICARDA) and international organizations e.g. FAO .

Books

1- Introduction to Articulation in the Sudan Khartoum University press(in Arabic)EL Nadi, A.H.(2002).

) in2-Soil-Water,Plant and atmosphere ,(under publication

U of K,University Press 2015

3- Guide to crop water requirements in the Sultanate of Oman

publications of the Ministry of Agriculture and Fisheries.

4- Co-editor of the Published Proceedings of the Natural Plan UNESCO Chair of Desertification Studies, Uof K.2007

VII.Administrative Contributions:

1)**Director of theDemonstration Farm** of the Faculty of Agriculture(1970-1973).The function of this farm is to provide appropriate areas forgrowing the different crops and Other agriculture practices for the students .

2)**Director of the University Farm (1975-1978)**

The function of the Director is to assign appropriate areas for demonstration of the different field crops ,vegetables and fruit trees to replace ones .

-Allocation of the agreed areas for the requirements of the Forestry Department ,Veterinary Medicine, Animal production and their related units

-the Farm used to provide the Hostel Students, the University Staff and other workers with vegetables ,fruits , milk and eggs. The surplus used to fetch income for the University through an agent.

3)Head of Department (1970-1980):

Carried out the usual responsibilities in addition to revision of courses, sending teaching Assistants to abroad for further experience .

-Sending abroad Teaching Assistants to read for higher degrees

-Supplied the laboratories with new equipment

4)Dean of the Faculty(1980-1983): Details under (VIII)

VIII. Cultural Agreements and Research

1)Reactivation of Cultural Agreements with the Universities of London(Wye College, of Agriculture), Belfast, Hamburg and Dresden (Germany) .

2) Joint research projects with abovementioned universities.

3) Exchange of staff and under taking joint research projects (eg date fruits, seed chemical composition and quality).

4) Receiving help to modernize the **seed** and **soil laboratories**.

5) Finance Leave of Absence and award of scholarships to read for two ph.D. degree in forestry in the University of Dresden .

6) **Secretary General for the Ministry of Higher Education and Research** (at present this job is called PUS or ("Wakeel "of the Ministry (1189-1991)))

This job was on secondment from the University of Khartoum.

The main responsibilities of this job were:-

1) Define the job description of members of staff belonging to the Directorates of (a)Finance ,(b)Admission ,(c)Administration and Personal Affairs ,(d)Representative of the Ministry in the counsel of the Universities of Khartoum, The Islamic University and other committees

IX.Participation in National Functions:

Before and after joining the University on year –to year contract:

- 1) Member in the Institute of Desertification and Desert Cultivation from 2004 to this date
- 2) Member of the committee for making the Constitution for the Net of information (NAP)
- 3) Member of the committee for making National Programs for Arid lands
- 4) Offering help for the **State Universities** in various academic functions
- 5) The national Representative in the committee of crop production of the National Agricultural research Council of the Sudan (awarded to medals in recognition of my contributions
- 6) The Faculty Representative the national committee for climatology
- 7) National and International consultant in crop water requirement and agricultural systems .

For example in the **following organizations:-**

FAO of the United Nations , IFAD, the International Fund for Agricultural Development, the International Centre for Agricultural Research in Dry Areas (ICARDA), The Arab Organization for Agricultural Investment, and the Arab Co-operation for Agricultural Development in Arab Countries.

Publications

Publications in international (refereed) journals and Technical Reports (published in Proceedings):

1. AH. El Nadi and Hudson, IP (1965) Effects of crop height on evaporation from Lucerne and wheat grown in lysimeters under advective condition in the Sudan EXPT Agric 1, 289-98
2. AH. El Nadi and Khei, BM. (1969) An appraisal of calculated evaporation under tropical conditions Sudan Agric Jr . 4, 38-47.
3. AH. El Nadi, (1969) (a) Efficiency of water use by irrigated wheat in the Sudan J. Agric Science Camb. 73, 261-266
4. AH. El Nadi, Brower, R and Locher J. Th. (1969) Some responses of the root and the shoot of *vicia faba* plants to water stress. Neth. J. Agric Science 17, 133-142
5. AH. El Nadi, (1969) (b) water relations of beans (1) Effects of water stress on growth and flowering Expl. Agric 5, 19-27.
6. AH. El Nadi, (1970) water relations of beans (11) Effects of differential Irrigation on yield and seed size of beans Expl. Agric, 6, 107-111.
7. AH. El Nadi, (1974). The significance of leaf area in evapotranspiration. Ann Bot. 8. 67-74.

8. .LazimM.H and EL Nadi,A.H (1974)a Growth and yield of irrigated sesame (1)Effects of population and variety on vegetative growth. Expl.Agric.10.65-69.
9. .El Nadi,A.H andLazim M.H (1974)b. Growth of irrigated sesame.(11) Effects of population and variety on reproductive growth and seed yield. Agric 10.71-76.
10. .El Nadi,A.H (1974)c. Growth yield and quality of cotton under three water regimes in the Sudan .Expl.Agric .10, 313-318.
11. .ElNadi,A.H (1975)a.Irrigation requirements of maize in atropical environment Acta. Agronomica 24(74) 423-430.
12. El.Nadi,A.H(1975)b.water relations of beans.(111)pod and seed yield of haricot beans under different irrigation in the Sudan Expl.Agric.11,155-158.
13. .Saeed,L.A.M and. El Nadi,A.H (1997) irrigation effects on the growth, yieid and water use efficiency of alfalfa Irrig.Sci 17,63-68.43.
14. Saeed,I.A.M and. ElNadi,A.H (1998). Forage sorghum yield and water use efficiency.Irrig.Sci.18,67-71.
15. El.Nadi, A.H And Abdel Magid, I.(2006)Utilization of the Water Resources in the Sudan: Improvement of Water Use Efficiency in Agriculture Jour. Of Sci and Technology.
16. Abu Elgasum R.N and EL Nadi, A.H(2009)Response of Three Indigenous pulse crops to Different moisture conditions UAK .J.Agric.sci 17(3)344-355.
17. El Nadi, A.H (1972). A study of crop water requirements in Northern Sudan, using radioisotope techniques.FAO Series No. 134. 93-95.
18. El Nadi, A.H (1980). Some Agronomic Aspects of broad been production. ICARDA/ IFAD. No 21,16-23
19. EL Nadi, A.H (1996) Raising the efficiency of irrigation under different modern irrigation technique Jr. Minst. of Agric, Sultanate of Oman 33,20-27
20. AH. ElNadi(2004) The relationship between evaporation, rainfall, and crop requirements of maize.SudanJr.of Agric.Res37,-27-35
21. Idris,A.Y and El Nadi,A.H(2014) Performance of Lucerne (*Medicago sativa* L) I:Effect of irrigation regime and irrigation system on fodder yield of Lucerne (*Medicago sativa* L) Under semi-arid environment UofKJ.Agric.Sci 22.(1),113-125.
22. ElNadi,A.H and Idris,A.Y.(2015) Performance of Lucerne (*Medicago sativa* L) Under semi-arid environment II:Effect of irrigation system and weather changes on fodder productivity. UofK.J.Agric.Sci 23(2) -39.
23. Ali,E.E and ElNadi,A.H(2015) Methods of cultivation and crop productivity in Rain-fed Mechanized Schemes in Sennar State, Sudan. U of K.J,Agric.23(1) 17-27.

24.Feasibility study of proposal, submitted to Sudan Gezira Board Evaluating Irrigation Policy by El Nadi,A.H (1968). Gezira Board Publications.

25. El Nadi, A.H (1970).Studies on the problems of Agric. Production in Western Sudan.Publications of the Ministry of Agriculture Sudan.
26. El Nadi,A.H (1975). Plus crops of the Sudan.The First Agriculture Congress.Publications of the Ministry of Agriculture, Sudan. (in Arabic).
- 27.EINadi,A.H (1977). The Technical an Economic Feasibility of KONDI III project in the Islamic Republic of Mauritania.Arab Organization for Agricultural Development Khartoum.
28. El Nadi,A.H (1977). An appraisal for the Hunting Technical, Ministry of Agriculture, Ministry of Agriculture, Food and National Research.
29. El Nadi,A.H (1978). Technical and Economic study of Esailat Agricultural Scheme.Khartoum Publications of Khartoum Province. (1978).
- 30.EINadi, A.H (1980). A study on the Deterioration of cotton yields in the Irrigated Schemes of the Sudan. Reports of Ministry of Agriculture-Sudan (in Arabic).
31. El Nadi,A.H and Others (1981). Utilization of the Natural Resources for Agricultural Production of Khartoum Province (in Arabic).Arab Organization for Agricultural Development Khartoum.
32. El Nadi,A.H (1981). (b) water relations' studies in Beans Tech. Rep ICARDA IFAD Nile Valley Project.
33. El Nadi,A.H (1982). (a) Present and Potential Utilization of the Agricultural Resources in the Northern and Eastern Regions of the Sudan. Arab Organization for Agricultural Development-Khartoum (in Arabic).
34. El Nadi,A.H and Others (1982). (b) Rehabilitation for Agricultural Schemes in the Northern Region of the Sudan. IFAD Rome.
35. El Nadi,A.H and Others (1985). Feasibility study of El Hisha Project in Libya (Arab Organization for Agricultural development Khartoum).
- 36.EINadi,A.H (1988). Dry Land Farming in Ethiopia Nazareth Research Station Project Eth/014 FAO Rome, C.P.O. 1988 Expert's Technical Report.
37. El Nadi,A.H (1990). Agricultural Research Extension and Training Project (ARETP), National Consultants, Project Midterm Review, Final Report. (World Bank and Government of Sudan Project).
38. El Nadi,A.H Assad Tagi and Mohsin El Amri 1995 (a) Different Methods for Estimating Water Requirements of Crops. (Ministry of Agric. & Fisheries Tech. Reports.Sultanate of Oman).

39. El Nadi,A.H&Mohsin El Amri (1995). (b) Different climatic conditions & their effects on water requirements.
- 40.ELNadi,A.H (1996),Field crops water requirement: The Irrigation Cycle. Ministry of Agric&Fisheries of Oman Tech.Reports.
- 41.ELNadi,A.H (1997)The Use of Modeling in Irrigation Scheduling. Ministry of Agric.&Fisheries,Sultanate of Oman.
- 42.EINadi,A.H&Saoud El Habsi (1999)The Water Requirements of Vegetables in the Sultanate of Oman in the National Conference of Arab Organization of Agric Development Syria,(1999).
- 43.EINadi,A.H (2000)Research Strategy for Research in Soil and water in the Sultanate of Oman.Tech.Rep. Ministry of &Fisheries Sultanate of Oman.
44. El Nadi,A.H (2001). The effect of climate, soil and type of crop on water requirements.Tech.Reports. Ministry of Agric& Fisheries, Sultanate of Oman.
- 45.El. Nadi,A.H (2002)(a)the future of solar energy in rural development in Sultanate of Oman. Conference paper. University of SultanQabos. Sultanate of Oman.
- 46.EINadi, A.H (2002) (b) the Differential Irrigation and Irrigation Deficit .Tech Reports, Ministry of Agric&Fisheries Sultanate of Oman.
- 47.EINadi,A.H (2003)(b) Irrigation Scheduling for date palms in Oman Tech,Reports Ministry of Agric&Fisheries, Sultanate of Oman.
- 48.EINadi,A.H (2003) (b) Irrigation Guide,Estimation of crop Water Requirements in Oman.
- 49.EINadi,A.H (2005a)Water Requirements for the Economic Production of Lucerne in Khartoum State. Proceeding of the National crop Husbandry Committee, Agric Research Crop, Agric Research Corporation, Sudan.
- 50.EINadi,A.H (2005b)The Water Requirements of Economic Production of fodder Sorghum and fodder maize in Khartoum State the 40th National crop Husbandry Committee Agric Research Crop, Sudan
- 51.EINadi,A.H (2006a) (Team Member with Golda Associates, South Africa) Improvement and Modernization of Agriculture in the Gezira Scheme . Gazira Technical Reports (2006).
- 52.EINadi,A.H And Abdel Magid ,I,(2006b) Utilization of the Water Resources in Sudan . Proceedings of the Committee for Future Studies in the Sudan (2006).

53. EL Nadi,A.H (2006c) (Team Member with Golda Associates, South Africa) Feasibility Study of Agricultural Production in Sondos Project.(Khartoum). Technical Reports of SondosProject.